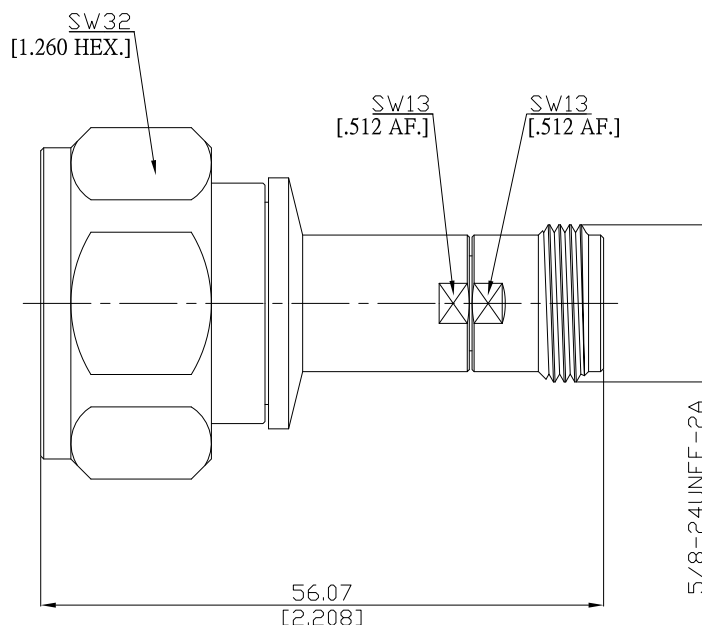


Precision 7/16 plug (male) / Precision N jack (female)
Straight Adaptor DC-8 GHz VSWR ≤ 1.10

AD-PCD1PCN25A / 144-94



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Precision 7/16 according to

IEC 60169-4

Precision N according to

IEC 60169-16; MIL-STD-348B/304

Electrical Data

Impedance

50 Ω

Frequency

DC to 8 GHz

VSWR (Return Loss)

≤ 1.10 (≥ 26.44 dB)

Insertion Loss

≤ 0.05 × √F (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 1 mΩ, Precision N side;

≤ 0.4 mΩ, Precision 7-16 side

Outer contact resistance

≤ 0.25 mΩ, Precision N side;

≤ 1.5 mΩ, Precision 7-16 side

Working voltage

500 V rms

Power handling

1000 W @ 1 GHz

700 W @ 2 GHz

RF-leakage

≥ 128 dB up to 1 GHz

Material And Plating

Piece Parts (Precision 7/16)	Material	Plating
Centre contact	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (Precision N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:-

Date:
JUL/16/2021

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Mechanical Data

Coupling mechanisms	Precision N side	Precision 7/16 side
Mating cycles	Screw-lock	Screw-lock
Coupling nut retention	min. 500	min. 500
Center contact captivation: axial	≥ 450 N	≥ 1000 N
radial	≥ 28 N	≥ 30 N
Coupling test torque	≥ 3 Ncm	≥ 3 Ncm
Recommended torque	max. 1.7 Nm	max. 35 Nm
	0.7 Nm to 1.1 Nm	25 to 30 Nm

Environmental Data

Temperature Range	-55°C to +165°C
Rapid change of temperature	IEC 60068-2-14 Test Na
Corrosion salt mist	IEC 60068-2-11 Test Ka
Vibration	IEC 60068-2-6 Test Fc
Shock	IEC 60068-2-27 Test Ea
Climatic class	IEC 60068-1 (45/85/56)
Cold	IEC 60068-2-1 Test A
Dry heat	IEC 60068-2-2 Test B
Damp heat (steady state)	IEC 60068-2-3 Test Ca
Degree of protection (mated pair)	IEC 60529, IP68
RoHS	compliant

Packing

Singleor 100